RICE | RCEL
Rice Center for Engineering Leadership

SUBJECT: PROFESSIONAL EXCELLENCE FOR ENGINEERS ENGI 241 Fall 2014

COURSE DESCRIPTION: ENGI 241 is a one credit hour applied practicum and internship course that provides guided career and professional development for engineering students in a real-world industrial, academic, research, or other professional context. ENGI 241 prepares students to assimilate quickly, and to exceed employer expectations during their internships. Students will develop a functional awareness of the **vision, mission, strategy,** and **objectives** of the organization, such that they may identify how their interests and skills **align** with the needs and culture of the company.

Course learning objectives:

- Practice applied skills in designated RCEL competency domains.
- Evaluate and develop a functional awareness of personal strengths, weaknesses, and dispositions relative to the specific context of the professional environment.
- Refine ability to participate as a valuable and productive team member in an applied engineering context.
- Practice and evaluate success of leadership strategies in an applied context.
- Analyze, evaluate, and communicate self-awareness of strengths, weaknesses, and areas of potential growth based on on-the-job internship experiences.
- Communicate effectively with team members and supervisors to ensure project success.

INSTRUCTOR: **Kaz Karwowski**
Abercrombie A101
Office (713) 348-2359
Email: karwowski@rice.edu
Office Hours: 1-3 Tue, Thursday

Cesare Wright
Abercrombie A101
Office (713) 348-3181
Email: cesare@rice.edu
Office Hours: 1-3 Mon, Friday

CLASSROOM AND SCHEDULE: **Students will participate in an internship at varying companies and locations and are required to submit periodic assignments, participate in teleconferences, and submit a final report highlighting lessons learned**.

Assignments and due dates: All blogs and assignments are submitted to the ENGI 241 Owl Space Site.

April 29th
Course preparation- Students will confirm company positions, titles, supervisors and locations prior to leaving for their internships.

May 30th
First Check-in—Students will check in with the RCEL Staff informing them of any changes in title, job requirements or duties, location or supervisory changes. This will be done through the following wufoo link: **https://engrice.wufoo.com/forms/rcel-internship-update-and-checkin-for-engi-241/**

June 6th
First blog post due— Workplace structure and politics – Who has the power?

June 13th
Second blog post due— Workplace culture – What are the norms, expectations, and taboos?

Telecon—call into RCEL (866) 516-3949 --Participant Pin Code: #639381
International Toll—(904) 256-9416 **Times will be announced later

June 20th
Third blog post due— Organizational fit – What are your strengths relative to the demands of the working environment and the job requirements?

June 27th
Fourth blog post due— Organizational fit – What are your weaknesses relative to the demands of the working environment and the job requirements?

July 3rd
Fifth blog post due— Engage a senior engineer or manager – Meet with and/or interview a senior engineer or leader with the company and summarize the experience.

July 11th
Sixth blog post due— Expectations vs. reality – How does your experience of the job fit conform to or contrast your expectations?

July 18th
Seventh blog post due— Lead a project or component of a project (perhaps one that has been side-lined). Share your experiences.

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July 25th
Eighth blog post—Identify and engage with a mentor—Share any valuable insights you've gained.

August 29th
Final Reflection—Compile blog journals and assemble into one document submitted to OwlSpace and turned in as a printed copy.

Grading

Grading is based on students completing all assignments and blog posts.

10% - Participation in required pre-internship workshops
10% - Participation in telecon meetings
40% - Weekly blog reflections
40% - Completion of field practicum

Rice Honor Code

Students are responsible for maintaining the highest standards of honesty and integrity in their work and conduct. Students should be familiar with what constitutes plagiarism and always cite proper references of outside materials. The case papers should include only analyses based on the case; no outside materials are required or permitted for these papers. Students should abide by the honor pledge they made upon entering Rice and include the following statement on all submitted assignments; "On my honor, I have neither given nor received any unauthorized aid on this (paper or exam)".

Special Needs

Let us know during the first few weeks of the semester if you have disability needs and we will do what we can to accommodate these needs. Students with disabilities should contact Rice Disability Support Services at 713.348.5841 or http://dss.rice.edu.

* This syllabus is subject to change throughout the semester.